## PRE-CONSTRUCTION NOTIFICATION NATIONWIDE PERMIT 41 KRIENKE PROPERTY LOOMIS, CALIFORNIA

**FEBRUARY 7, 2007** 



#### Prepared for Kai Krienke 5397 Brace Road Loomis, California 95650

(916) 652-0231

Prepared by
TETRA TECH EM INC.
360 Gold Center Drive, Suite 200
ncho Cordova, California 95670
(916) 852-8300

Tetra Tech Project Number P4030.01

#### RECEIVED

FEB 08 2007

**TOWN OF LOOMIS** 



Craig R. Hunter, PhD Principal Scientist

6 February 2007

US Army Corps of Engineers Regulatory Branch 1325 J Street, Room 1480 Sacramento, CA 95814-2922 916-557-5250 FAX: 916-557-6877

Subject: Request for a Wetland Jurisdictional Determination and Pre-Construction Notification

5397 Brace Road, Loomis, California 95650

Placer County, California

#### Dear Sir or Madam:

On behalf of Mr. Kai Krienke of Loomis, California, Tetra Tech EM Inc. (TtEMI) presents a preconstruction notification under Nationwide Permit 41 for a proposal to construct a driveway (access road). This driveway will provide access to two additional lots being created as part of a minor land division from a 1-acre parcel with an existing house. Mr. Krienke proposes to construct a driveway to access the additional lots. The construction of the driveway will affect two areas of a wetland that have formed in a storm water ditch along the western edge of property.

The details of the project are provided in the accompanying Nationwide Pre-Construction Notification form, including Mr. Krienke's address and telephone numbers, a brief description of the project, a statement that the project would not result in adverse environmental effects. In addition, the pre-construction notification form includes a statement that identifies the measures undertaken to avoid and minimize losses to potential waters of the United States and justification for a belief that no mitigation is required. In addition to the pre-construction notification form, the application package contains a map of the project location, a site map showing project details, and a wetland delineation report.

Mr. Krienke requests a jurisdictional determination of the wetlands associated with the storm water ditch. If it is determined that the wetlands are 'waters of the United States', Mr. Krienke would ask for an evaluation of his project under Nationwide Permit 41 – Reshaping Existing Drainage Ditches. Please note that an application for a Section 401 Water Quality Certification will be made once there is a determination that a Section 404 of the Clean Water Act is applicable.

This application package is being forwarded to the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, and the California Department of Fish and Game as requested by the application directions for the Pre-Construction Notification.



Should you have any questions or require supplemental information, please feel free to contact me at 916-853-4507.

Sincerely,

Craig R. Hunter, Ph.D. Principal Scientist

Attachments: Preconstruction Notification Form

Site Map, Grading Plan, and aerial photograph Krienke Property Wetland Delineation

cc: Mr. Kai Krienke (3)

U.S. Environmental Protection Agency, Region IX - Wetlands Section

U.S. Fish and Wildlife Service, Habitat Conservation Division, Wetlands Branch California Department of Fish and Game, Region 2 – Environmental Services

#### U.S. Army Corps of Engineers

### **South Pacific Division**



#### Nationwide Permit Pre-Construction Notification (PCN) Form

This form integrates requirements of the Nationwide Permit Program within SPD, including General and Regional Conditions. Please consult instructions prior to completing this form.

Box 1 Project Name		Applicant Name		
Brace Road		Kai Krienke		
Applicant Title		Applicant Company, Agency, etc.		
Owner		not applicable		
Mailing Address		Applicant's internal to	racking number (if any)	
5397 Brace Road; Loom	is, CA 95650			
Work Phone with area code	Home Phone with area co	de Fax #	E-mail Address	
	916.652.0231	same	kaikrienke@sbcglobal.net	
Relationship of applicant	to property:			
	er Lessee Oth	ner:		
Application is hereby made fo	r verification that subject re	gulated activities associat	ed with subject project qualify	
for authorization under a Corp	os nationwide permit or per	mits as described herein.	I certify that I am familiar	
with the information containe				
information is true, complete, proposed activities. I hereby	and accurate. I further cer	tify that I possess the aut	nority to undertake the	
above-described location to ir				
after all necessary permits ha		gread or completed work.	t agree to start work only	
Signature of applicant			Date (m/d/yyyy)	
3)	: .		2/2/2007	
Box 2 Authorized Agent/Operator Name and Signature (If an agent is acting for the applicant during the permit process)				
Craig Hunter				
<b>Agent/Operator Title</b>		Agent/Operator Company, Agency, etc.		
Principal Scientist		Tetra Tech EM Inc.		
Mailing Address				
10860 Gold Center Road	; Rancho Cordova, CA 9	5670		
E-mail Address			:	
craig.hunter@ttemi.com		· · · · · · · · · · · · · · · · · · ·		
Work Phone with area code Home Phone with area of			Cell Phone #	
916.853.4507		916.852.0307		
I hereby authorize the above name	ned authorized agent to act in	my behalf as my agent in the	e processing of this application	
and to furnish, upon request, sur by the actions of my agent and I	opiemental information in supp understand that if a federal or	ort of this permit application. state permit is issued. L. or	I understand that I am bound my agent, must sign the permit	
Signature of applicant	and or state a distance of the state of the	State permit is issued, 1, or	Date (m/d/yyyy)	
			2/2/2007	
I certify that I am familiar wit	I certify hat I am familiar with the information contained in this application, and that to the best of my			
knowledge and belief, such information is true, complete, and accurate.				
Signature of authorized	agent	i	Date (m/d/yyyy)	
( ray of	JIMN)		2/5/2007	

	perty owner(s), if other	er than applicant:
Owner Title		Owner Company, Agency, etc.
Mailing Address		
Work Phone Home Phone		
Box 4 Name of cont	cractor(s) (if known):	
Contractor Title		Contractor Company, Agency, etc.
Mailing Address		
Work Phone	Home Phone	
Include multiple copies of Box 5 fo	or separate sites.	
county, state, zip coo	of 1. Project location de where proposed acts, CA 95650. The site is in	
		tributary to"):drainage ditch to an
unnamed tributary	of	
Tributary to what know	n, downstream waterboo	dy:Secret Ravine Creek
Latitude & longitude (D/N N, 121.2020796 W	4/S, DD, or UTM):38.8106480	Zoning Designation (no codes or abbreviations): Single-Family Residential-10,000 lot minimum
Assessors parcel number: 044-123-009		Section, Township, Range: SE1/4, SW1/4, Sec. 9, T. 11 N., R. 7 E.
USGS Quad map name: Rocklin		
Watershed and other loc Secret Ravine	cation descriptions, if kn	own:
•	amento, CA toward Reno, l	NV on Interstate-80, take the Sierra College Blvd. turn left and travel north approximately 0.63

miles to Brace Road. Turn right and travel east approximately 0.11 miles to the project location. Project is located on the north side of Brace Road.

#### **Nature of Activity** (Description of project, include all features, see instructions):

The project is to divide perform a minor land division to divided a 1-acre parcel with an existing single-family residence into three lots in the Town of Loomis. As part of the subdivision, the applicant is proposing to construct a driveway to provide access to the two new lots. The construction of the driveway will require placement of fill in two areas of a drainage ditch that serves as a local stormwater conveyance. The driveway will be 20-feet wide and will extend approximately 250-feet from Brace Road to the northern boundary of the parcel. At the beginning of the driveway (at Brace Road), a culvert will run beneath the driveway to connect an exisiting culvert (from beneath Brace Road) to the stormwater drainage ditch that exists along the western edge of the parcel. The attached scale drawing shows the location of the driveway, the drainage ditch, and the wetland areas proposed for filling. Note that only a small portion of the wetlands associated with the drainage ditch will be affected by the proposed project.

#### **Project Purpose** (Description the reason or purpose of the project, see instructions):

The purpose of the project is to allow the applicant to create two additional lots from an existing 1-acre parcel. The driveway is a necessary condition of the land division process to allow access to the new building sites. After the driveway is constructed the applicant will sell the lots.

Use Box 6 if dredged and/or fill material is to be discharged:

#### Box 6 Reason(s) for Discharge into waters of the United States:

The reason for the placement of the fill is to allow construction of a driveway that will enable access to two building lots that are being partitioned from a 1-acre parcel.

Type(s) of material being discharged and the amount of each type in cubic yards: The material being used as fill will be road road aggregate for use as base material for the driveway.

Total surface area in acres of wetlands or other waters of the U.S. filled (see instructions): The total surface area of wetland areas that will be filled is 0.01 acre.

Indicate in ACRES and LINEAR FEET (where appropriate) the proposed impacts to **waters of the United States**, and identify the impact(s) as permanent and/or temporary for each water body type listed below:

	Perm	anent	Temporary	
Water Body Type	Acres	Linear feet	Acres _	Linear feet
Wetland	0.01	30		
Riparian streambed				
Unveg. streambed				
Lake			700 TO 100 TO 10	
Ocean				
Other				1 "111
Total:	0:01	30		111-1

Potential indirect and/or cumulative impacts of proposed discharge (if any):
none.
Doguirod deputings ( )
Required drawings (see instructions):
Vicinity map: Attached (or mail copy separately if applying electronically)
To-scale Plan view drawing(s): Attached (or mail copy separately if applying electronically)
To-scale elevation and/or Cross Section drawing(s): Attached (or mail copy separately if applying electronically)
Has a wetlands/waters of the U.S. delineation been completed?
Yes, Attached (or mail copy separately if applying electronically) No
If a delineation has been completed, has it been verified in writing by the Corps?
Yes, Date of approved jurisdictional determination (m/d/yyyy): Corps file number:
Please attach <sup>1</sup> one or more color photographs of the existing conditions (aerials if possible).
<sup>1</sup> or mail copy separately if applying electronically
Dredge Volume: Indicate in CUBIC YARDS the quantity of material to be dredged or used as
fill: The approximate amount of material that will be used to fill the wetland areas during
construction of the driveway is 46 cubic yards.
Indicate type(s) of material proposed to be discharged in waters of the United States:
The material used to fill the wetland areas will be clean road base aggregate from commercial
suppliers in the region.
For proposed discharges of dredged material into waters of the U.S. (including beach
nourishment), please attach <sup>2</sup> a proposed Sampling and Analysis Plan (SAP) prepared
according to Inland Testing Manual (ITM) guidelines (including Tier I information, if
available).
<sup>2</sup> or mail copy separately if applying electronically
Is any portion of the work already complete?   YES   NO
If yes, describe the work:
2 41
Box 7 Intended NWP permit number <sup>3</sup> : 41
Intended NWP permit number (2 <sup>nd</sup> ): 39
Intended NWP number (3 <sup>rd</sup> ):
<sup>3</sup> Enter the intended permit type(s). See NWP regulations for permit types and qualification information
(http://www.usace.army.mil/inet/functions/cw/cecwo/reg/nationwide_permits.htm).
Box 8 Authority:
Is Section 10 of the Rivers and Harbors Act applicable?:   YES   NO
Is Section 404 of the Clean Water Act applicable?  VES  NO

<b>Box 9</b> Is the discharge of fill or dredged material for which Section 10/404 authorization is sought part of a larger plan of development?: $\square$ YES $\boxtimes$ NO
If discharge of fill or dredged material is part of development, name and proposed schedule
for that larger development (start-up, duration, and completion dates):
to that larger development (start up, daradon, and completion dates).
Therefore of learners developed of the Court
Location of larger development (If discharge of fill or dredged material is part of a plan of
development, a map of suitable quality and detail of the entire project site should be
included):
,
Total area in acros of ontire project area (including land)
Total area in acres of entire project area (including larger plan of development, where applicable):
~ 1 acre
Box 10 Threatened or Endangered Species
Please list any federally-listed (or proposed) threatened or endangered species or critical habitat
within the project area (use scientific names (e.g., Genus species), if known):
•
c. d.
e. f.
Have surveys, using U.S. Fish and Wildlife Service/NOAA Fisheries protocols, been conducted?
Yes, Report attached (or mail copy separately if applying electronically)  No
If a federally-listed species would be impacted, please provide a description and a biological evaluation.
Yes, Report attached (or mail copy separately if applying electronically)  Not attached
Has the USFWS/NOAA Fisheries issued a Biological Opinion?
Yes, Attached (or mail copy separately if applying electronically)  No
If yes, list date Opinion was issued (m/d/yyyy):
Has Section 7 consultation been initiated by another federal agency?
Yes, Initiation letter attached (or mail copy separately if applying electronically)  No
Has Section 10 consultation been initiated for the proposed project?
Yes, Initiation letter attached (or mail copy separately if applying electronically)
Box 11 Historic properties and cultural resources:
Please list any historic properties listed (or eligible to be listed) on the National
Register of Historic Places:
a. none b.
c. d.
e. f.
Are any cultural resources of any type known to exist on-site?
☐ Yes 🔀 No
Has an archaeological records search been conducted?
Yes, Report attached (or mail copy separately if applying electronically)
Has a archaeological pedestrian survey been conducted for the site?
Yes, Report attached (or mail copy separately if applying electronically)  No
Has a Section 106 MOA been signed by another federal agency and the SHPO?
Yes, Attached (or mail copy separately if applying electronically)  No
If yes, list date MOA was signed (m/d/yyyy):

Has Section 106 consultation been initiated by another federal agency?		
Yes, Initiation letter attached (or mail copy separately if applying electronically)	⊠ No	

## Box 12 Measures taken to avoid and minimize impacts to waters of the United States (if any):

The potential impacts to wetland areas are unavoidable. The driveway is necessary to access the new lots proposed by the minor land division. The proposed driveway must be located along the western edge of the property because of the existing house and the driveway on the eastern side of the lot. In addition, the driveway must maintain a suitable separation from the house. The driveway avoids the majority of the wetland area, encroaching only where the driveway enters Brace Road and crosses the storm water ditch and a small area where storm water overflows the ditch.

Include multiple copies of Box 13 for separate sites.

Box 13 Proposed	Compensato	ry Mitigation	<b>1</b> (site $1$ of $1$ ) relate	d to fill/excavat	tion and dredge
<b>Box 13 Proposed Compensatory Mitigation</b> (site 1 of 1) related to fill/excavation and dredge activities. Indicate in ACRES and LINEAR FEET (where appropriate) the total quantity of waters of the United States proposed to be created, restored, enhanced and/or preserved for purposes of providing compensatory mitigation. Indicate water body type (wetland, riparian streambed, unvegetated streambed, lake, ocean, other) or non-jurisdictional (uplands <sup>5</sup> ). Indicate mitigation type (on- or off-site by applicant, mitigation bank, in-lieu fee program):					
Water Body Type	Created	Restored	Enhanced	Preserved	Mitigation type
Example: wetland	0.8 acre _	0.2 acre		-	On-site by app
Example: riparian stream	1-11-11-11-11-11-11-11-11-11-11-11-11-1		3.0 acres/1300 lf	_	ILFP.
	A MANUAL CONTROL OF THE PROPERTY OF THE PROPER				
				<del></del>	
			The state of the s		
Γotals:	Factor of the second				
<sup>5</sup> For uplands, please indicate	e if designed as an un	land buffer			
If no mitigation is pr	oposed, provid	le detailed exc	lanation of why n	o mitigation	would be
necessary: The applicant does not believe compensatory mitigation is warranted for this action because the wetlands have formed in a man-made drainage ditch and the contemplated action involves reshaping the ditch. The accompanying wetland delineation provides evidence that the wetlands have developed only as a result of stormwater flows in a ditch. The wetland areas that would be affected by the proposed project are related to an area around a culvert end from beneath Brace Road and an area where storm water flows exceed the ditch capacity. The applicants project does not disturb the the ditch itself other than to extend an existing culvert to allow access from the driveway to Brace Road and avoid impeding storm water flows. In addition, the applicant proposes to reshape the ditch bank to minimize the potential for stormwater flows to flow across the upland areas of the lot.					
Has a draft/conceptual mitigation plan been prepared in accordance with the Army Corps of Engineers District guidelines?					
Mitigation site latitude & longitude (D/M/S, DD, or USGS Quad map name: uтм):					
Assessors parcel num	Section, Township, Range, USGS Quadrangle Map, Latitude/Longitude:				
Other location descri	otions, if know	n:	1		

Directions to the mitigation location:

Box 14 Water Quality Certification (see instructions):  Applying for certification?  Yes, Attached (or mail copy separately if applying electronically)  No				
Certification issued?   Yes, Attached (or mail copy separately if applying electronically)   No				
Exempt?  Yes  No If exempt, state why: Agency concurrence? Yes, Attached No				
Box 15 Coastal Zone Management Act (see instructions): Is the project located within the Coastal Zone? ☐ Yes ☒ No				
If yes, applying for a coastal commission-approved Coastal Development Permit?  Yes, Attached (or mail copy separately if applying electronically) No				
If no, applying for separate CZMA-consistency certification?  Yes, Attached (or mail copy separately if applying electronically) No				
Permit/Consistency issued?  Yes, Attached (or mail copy separately if applying electronically)  No				
Exempt?  Yes No If exempt, state why:				
<b>Box 16</b> List of other certifications or approvals/denials received from other federal, state, or local agencies for work described in this application:				
Agency Type Approval <sup>4</sup> Identification No. Date Applied Date Approved Date Denied				
City of Loomis Minor Land Division 06-22 December 2006 Approval Pending				
<sup>4</sup> Would include but is not restricted to zoning, building, and flood plain permits				
NWP General conditions (GC) checklist:				
1. Navigation:				
Project would be in compliance with GC? X Yes No				
2. Proper Maintenance:				
Project would be in compliance with GC? X Yes No				
3. Erosion and Siltation Controls:				
Project would be in compliance with GC? X Yes No				
4. Aquatic Life Movements:				
Project would be in compliance with GC? X Yes No				

5.	Equipment:
	Project would be in compliance with GC? X Yes No
6.	Regional and Case-by-Case Conditions:
	Complete the Regional Conditions checklist below.
	Project would be in compliance with any Case-by-case conditions? X Yes No
7.	Wild and Scenic Rivers:
	Project would be in compliance with GC? X Yes No
8.	Tribal Rights:
	Project would be in compliance with GC? X Yes No
9.	Water Quality (401 Certification): see Box 14 above.
10	Coastal Zone Permit: see Box 15 above.
11	Endangered Species: see Box 11 above.
1	2. Historic Properties: see Box 12 above.
1.	3. Notification (Check mark and provide those that apply)
	NWP 7, 12, 14, 18, 21, 34, 38, 39, 40, 41, 42, and 43: Delineation of wetlands and
	other waters of the U.S.
	NWP 7: Original Design Capacity & Configurations
	NWP 14: Compensatory Mitigation Proposal & written statement describing how temporary losses will be minimized to the maximum extent possible
	NWP 21: Office of Surface Mining or State-approved mitigation Plan
	NWP 27: Documentation of Prior Condition of Site
	NWP 29: Past use of NWP, statement of personal residence, parcel size description, land description
	NWP 31 (for repeat use): 5 year Maintenance Plan, baseline channel information, delineation, and disposal site information
	NWP 33: Restoration Plan
	NWP 39, 43, and 44: Written Statement on Avoidance and Minimization Measures
	NWP 39 and 42: Compensatory Mitigation Plan/Justifications of no plan
	NWP 40: Compensatory Mitigation Proposal

NWP 43: Maintenance Plan (for new construction) and compensatory mitigation proposal
NWP 44: Description of affected waters, minimization measures and reclamati
plan
NWPs 12, 14, 29, 39, 40, 42, 43, and 44: FEMA map, FEMA construction requirements and demonstration of FEMA compliance
14. Compliance Certification:
Applicant is aware of this post-construction requirement? X Yes X No
15. Use of Multiple Nationwide Permits:
Applicant is aware that if total proposed acreage of impact exceeds acreage limit of NWP with highest specified acreage, no NWP can be issued? $\  \  \  \  \  \  \  \  \  \  \  \  \ $
16. Water Supply Intakes:
Project would be in compliance with GC? $\boxtimes$ Yes $\square$ No
17. Shellfish Beds:
Shellfish beds present?   Yes   No
Project would be in compliance with GC?   ☐ Yes ☐ No
18. Suitable Material:
Project would be in compliance with GC?   ☐ Yes ☐ No
19. Mitigation:
Project would be in compliance with GC? $igthigwidghtarrow$ Yes $igcap$ No
20. Spawning Areas :
Spawning areas present?   Yes   No
Project would be in compliance with GC?   Yes   No
21. Management of Water Flows:
Project would be in compliance with GC? 🛛 Yes 🔲 No

22	. Adverse Effects From Impoundments:
	Project would be in compliance with GC? X Yes No
23	. Waterfowl Breeding Areas:
	Waterfowl breeding areas present?  Yes  No
	Project would be in compliance with GC? X Yes No
24	. Removal of Temporary Fills:
	Project would be in compliance with GC?   ☐ Yes ☐ No
25	. Designated Critical Waters (check those that apply)
	Includes:
	1) NOAA designated marine sanctuaries,
	2) National Wild and Scenic Rivers,
	3) Critical habitat for Federally listed species,
	4) Coral reefs,
	5) State natural heritage sites,
	6) Officially designated waters
	Applicant is aware of the restrictions a) and b) below? $oximes$ Yes $oxdot$ No
	a) NWP 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, and 44: No NWP can be
	issued (except in certain cases described in full text of GC#25).
	b) NWP 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, and 38:
	Notification required.
26.	Fills within 100-Year Floodplains:
	Project would be within 100-year floodplains?   Yes   No
	If yes, project would be in compliance with restrictions a) and b) below? $\square$ Yes $\square$ No
	a) Discharges Below Headwaters (below point of 5 cfs) resulting in permanent above-
	grade fills:
	NWP 29, 39, 40, 42, 43, and 44: No NWP can be issued.

NWP 12 and 14: Notification required.

b) Discharge	s in Headwaters (above point of 5 cfs) resulting in permanent above-grade fills:
Flood Frin	ge P 12, 14, 29, 39, 40, 42, 43, and 44: Notification required.
Floodway	/D 20 20 40 42 43 and 44. No NIM/D can be issued
	P 29, 39, 40, 42, 43, and 44: No NWP can be issued.
27. Construc	'P 12 and 14: Notification required.
	is aware of requirements under this GC? X Yes No
	equirements checklist:
1. Nationwide	<b>03</b> (case iii):
	mage (due to storm, flood, etc.) such as recent topographic surveys or ttached?   Yes  No
2. Nationwide	07:
NPDES permit	or other proof of CWA Section 402 compliance attached?   Yes   No
Activity/crossing	g must be part of a single and complete project.  Doe in compliance with this requirement?   Yes   No
<b>4. Nationwide</b> As-built or app	31: roved engineering drawings for each structure attached?   Yes   No
	<b>40:</b> In of an NRCS exemption, a NRCS-certified wetland delineation, and a NRCS pensatory mitigation plan attached?   Yes   No
NWP Regional C	Conditions (RC) checklist:
I. Los Angeles I	District (SPL) in Arizona and California:
	ated within a coastal watershed from the southern reach of the Santa s in Los Angeles County to the San Luis Obispo County/Monterey?

	If yes, then would the project meet the requirement to crossing design that ensures passage and/or spawning (see full RC text)?		
2.	Is the project located within the State of Arizona or desert regions of California in the Los Angeles Distri San Gabriel, San Bernardino, San Jacinto, and Santa of Little Lake, Inyo County)?	ict (generally n	orth and east of the
	If yes, no NWPs, except 1, 2, 3, 4, 5, 6, 9, 10, 11, 20, nationwide or regional general permits that specifically authorized structures or fill), can be used to authorize into a jurisdictional special aquatic site as defined by 4	y authorize mainte the discharge of	enance of previously dredged or fill material
	If yes, is applicant aware of restriction above?	☐ Yes	☐ No
3.	Does NWP or Regional General Permit require prior District Engineer?	notification (a	PCN) be given to the
	If yes, are the required color photographs or color		roject area taken from
4.	Is project located in a special aquatic site as defined perennial watercourse or waterbody in the State of (Colorado) desert regions of California?	•	
		☐ Yes	☐ No
	If yes, notification pursuant to general condition #13	is required.	
5.	Is project located in an areas designated as Essentia	al Fish Habitat?	No
	If yes, notification pursuant to general condition #13 i	is required.	
6.	Is project located within a watershed in the Santa M Ventura counties bounded by Calleguas Creek on th north and east, and by Sunset Boulevard and Pacific	e west, by High	hway 101 on the
	If yes, notification pursuant to general condition #13 i	is required.	
7.	Would project impact jurisdictional vernal pools?	☐ Yes	☐ No
	If yes, then an individual permit is required.		
8.	Is project within the Murrieta Creek and Temecula C County and does it require new permanent fills in per watercourses?		

Is project located in an ephemeral watercourse and is the impact greater than 0.1 ac	re?
If yes, then projects which would otherwise be authorized under NWPs 39, 42, or 43, will requant an individual permit.	ıire
9. Is project in San Luis Obispo Creek or Santa Rosa Creek in San Luis Obispo County for bank stabilization projects; or and in Gaviota Creek, Mission Creek or Carpinteria Creek in Santa Barbara County for bank stabilization projects and grade control structures? Yes No	
If yes, then an individual permit is required.	
II. Sacramento District (SPK) in California, Colorado, Nevada and Utah:	L
SPK Regional conditions to be applied across the entire Sacramento Distric including California, Colorado, Nevada, and Utah:	ţ
A. Is the project in a fen? $\square$ Yes $\boxtimes$ No	
Nationwide Permits 14, 29, 33, 39, 40, 41, 42, 43, and 44 are withdrawn from use in histosols, including fens. For the use of all other nationwide permits in fens, project proponents are required to notify the Corps using the notification or PCN procedures of the nationwide permit program (General Condition 1 This will be a "Corps only" notification.	
B. Will mitigation be completed before or concurrent with construction of the project?	
☐ Yes         No	
For all activities using any existing and proposed nationwide permits, mitigation that is required by specific condition must be completed before or concurrent with project construction. Where project mitigation involves the use of a mitigation bank or in-lieu fee, payment must be made to the bank or fee-in-lieu program before commencing construction of the permitted activity.	cial
C. Is a statement attached explaining how avoidance and minimization of impacts were achieved? $\square$ Yes $\square$ No	

If yes, then projects which would otherwise be authorized under NWPs 39, 42, or 43, will require an individual permit.

	For all nationwide permits requiring notification, except 27, the statement to the district engineer explaining how avoidance and united States were achieved on the project site.		
D. Is	the project in Lake Tahoe?	☐ Yes	⊠ No
	All existing and proposed nationwide permits are suspended Regional General Permit 16.	in the Lake Tahoe	e Basin in favor of using
<u>SPK</u>	Regional conditions to be applied only in Cal	<b>ifornia:</b> No	<u>ne</u>
<u>SPK</u>	Regional conditions to be applied in Nevada	: None	
SPK	Regional conditions to be applied in Utah:		
A. Fo	or use of any nationwide permit with the following at Engineers' Utah Regulatory Office, using the "Notifice Permit Program (General Condition 13), is required permits are restricted and can not be used as indic "Corps only" notification:	ication" proced I, except where	lures of the Nationwide e certain nationwide
	1. Does the activity affect waters of the U.S. below adjacent to the Great Salt Lake and below 4500 fee		
		☐ Yes	☐ No
	2 Does the activity involve bank stabilization in a p	erennial strear	n?
		☐ Yes	☐ No
	Bank stabilization activities that would affect more than 100 fupstream portion of the affected bank to the downstream sec substantially reduce the riparian vegetation, or increase velocities.	ction, narrow the	
	3. Does the activity affect springs.?	Yes	☐ No
	A spring is an aquatic feature caused by ground water being and/or stream characteristics. Nationwide Permits 14, 16, 18, be used in spring areas.		
<u>SPK</u>	Regional conditions to be applied only in Col	orado:	
A. SP	PK Regional Conditions Applicable to Specific <b>Nation</b>	wide Permits	Within Colorado:
	1. Does the action involve the use of Nationwide P	ermit No. 13 B	ank Stabilization?
		☐ Yes	☐ No

	Engineer in accordance with General Condition No. 13 (Notification) and the Corps determines the adverse environmental effects are minimal.
	2. Does the activity involve the use of Nationwide Permit No. 27 Stream and Wetland Restoration Activities?
	(1) For activities which include a fishery enhancement component, notification will include a letter from the Colorado Division of Wildlife concurring that the project will benefit the fishery; and (2) for projects in streams classified as "Gold Metal Waters", Nationwide Permit No. 27 may not be used. For such projects, the applicant can apply for the existing Colorado Regional General Permit No. CO-00-16900 (Stream Habitat Improvement Structures) or a standard individual permit.
B. SF	K Regional Conditions Applicable to All Nationwide Permits Within Colorado.
	1. Does the activity involve the use of temporary fills?   Yes   No
	Removal of Temporary Fills. General Condition No. 24 (Removal of Temporary Fills) is amended by adding the following: When temporary fills are placed in wetlands in Colorado, a horizontal marker (i.e. fabric, certifies weed-free straw, etc.) must be used to delineate the existing ground elevation of wetlands that will be temporarily filled during construction.
	2. Does the activity involve fills in Important Spawning Areas?   Yes   No
	Important Spawning Areas. General Condition No. 20 (Spawning Areas) is amended by adding the following: In Colorado, activities which; (1) would destroy important spawning areas; (2) would be conducted in these waters during spawning seasons for trout and Kokanee salmon (spawning season for rainbow and cutthroat trout is March 15 through July 15, and for brown and brook trout and Kokanee salmon is September 15 through March 15); or (3) would have greater than minimal release of sediments during these spawning seasons are not authorized by any nationwide permit. Bio-engineering techniques, such as native riparian shrub plantings are required for all bank protection activities that exceed 50 linear feet in important spawning areas. Important spawning areas are identified in the attached list (enclosure 1) of critical resource waters in Colorado.
C. SP Color	K Regional Conditions for Revocations Specific to Certain <b>Geographic Areas within</b> ado:
	1. Does any activity occur in a fen?
	Fens: In Colorado, nationwide permits No. 1, 2, 4, 6-11, 13-19, 21-25, 28-31, 33-36, and 39-44 are revoked for activities in these regionally important aquatic resources. Fens are defined as wetlands which are characterized by water logged spongy ground and contain (in all or part) soils classified as histosols* or mineral soils with a histic epipedon*. To determine whether this provision applies, the entire wetland must be examined for the presence of histosols or histic epipedons.
	*Histosols have 40 centimeters (16 inches) or more of the upper 80 centimeters (32 inches) an organic soil material (or less over bedrock). Organic soil material has an organic carbon content (by weight) of 12 to 18 percent, or more, depending on the clay content of the soil. Histic epipedons have a 20 to 60 centimeter-thick (8-24 inches) organic soil horizon that is at or near the surface of a mineral soil. Histosols and histic epipedons are widely recognized as organic soils formed by slow accumulation of plant debris in

In Colorado, bank stabilization activities necessary for erosion prevention in streams that average less than 20 feet in width (measured between the ordinary high water marks) are limited to the placement of no more than 1/4 cubic yard of material per running foot below the plane of the ordinary high water mark. Activities greater than 1/4 cubic yard may be authorized if the permittee notifies the District

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waterlogged situations where it cannot decompose. (More information on histosols can be obtained from the U.S. Department of Agriculture, Natural Resources Conservation Service publications on Keys to Soil Taxonomy and Field Indicators of Hydric Soils in the United States.
2. Does any activity occur within 100 feet of a spring?   Yes No
Springs: Within the State of Colorado, all nationwide permits are revoked within 100 feet of the water source of natural springs. A spring source is defined as any location where ground water emanates from a point in the ground. For purposes of this regional condition, springs do not include seeps or other discharges that do not have a defined channel.
D. Practices Applicable to All Nationwide Permits Within Colorado (SPK).
The following provides additional information regarding minimization of impacts and compliance with existing general Conditions:
1. Permittees are reminded of the existing General Condition No. 18 which prohibits the use of unsuitable material. Organic debris, building waste, asphalt, car bodies, and junk materials are not suitable material. Also, General Condition No. 3 requires appropriate erosion and sediment controls (i.e. all fills must be properly stabilized to prevent erosion and siltation into waters and wetlands). Streambed material or other small aggregate material placed alone for bank stabilization will not meet General Condition No. 3.
2. Permittees are encouraged to mitigate project impacts prior to or concurrent with project construction. This issue continues to be a concern and the Corps prefers at this time to request that nationwide permit notification submittals explicitly address prior to or concurrent mitigation or the reasons why mitigation cannot occur prior to or concurrent with project construction.
3. Does any activity occur within a critical resource water of Colorado?
In accordance with General Condition No. 25 (Designated Critical Resource Waters) waters within the State of Colorado listed in Enclosure 1 (Critical Resource Waters in Colorado) are designated as critical resource waters.
Enclosure 1
CRITICAL RESOURCE WATERS IN COLORADO
In accordance with General Condition No. 25 (Designated Critical Resource Waters) the following waters within the State of Colorado are designated as critical resource waters:
a. Outstanding Natural Resource Waters:

Cache la Poudre Basin: All tributaries to the cache La Poudre River system, including all lakes and reservoirs, which are within Rock Mountain National Park;

Laramie River: All tributaries to the Laramie River system, including all lakes and reservoirs which are in the Rawah Wilderness Area;

North Fork Gunnison River: All tributaries to North Fork Gunnison River system, including lakes, reservoirs and wetlands within the West Elk and Raggeds Wilderness Area;

North Platte River: All tributaries to the North Platte River and Encampment Rivers, including all lakes and reservoirs, which are in the Mount Zirkle Wilderness Area;

San Miguel River: All tributaries, lakes, reservoirs, and wetlands within the boundaries of the Lizard Head and Mt. Sneffels Wilderness Area;

Roaring Fork River: All tributaries to the Roaring Fork River system, including lakes, reservoirs and wetlands within the Maroon Bells/Snowmass Wilderness Area;

Umcompange River: All tributaries to the Uncompange River system, including lakes, reservoirs, and wetlands within the Mt. Sneffels and Big Blue Wilderness Areas;

Upper Arkansas River Basin: All streams, wetlands, lakes, and reservoirs within the Mount Massive and Collegiate Peaks Wilderness Areas;

Upper Colorado River: Mainstem of the Colorado River system including tributaries, lakes, reservoirs, and wetlands within Rocky Mountain National Park;

Upper Gunnison River Basin: All tributaries, lakes, reservoirs, and wetlands in the La Garita Wilderness Area. All tributaries to the Gunnison River system, including lakes, reservoirs, and wetlands within West Elk, Collegiate Peaks, Maroon Bells, Raggeds, Fossil Ridge, Oh-Be-Joyful and Big Blue Wilderness Areas;

White River: Trapper's Lake and tributaries to Trapper's Lake;

Yampa River: All tributaries to the Yampa River, including lakes, reservoirs and wetlands within Zirkle Wilderness Area.

b. **Important Spawning areas**: In Colorado , important spawning areas are defined as "Gold Metal Waters' as identified by the State of Colorado. Gold Metal Waters are defined in the Colorado Fishing Season Information brochure, on the Colorado Division of Wildlife website www.dnr.state.co.us, or can be obtained at any Corps office in Colorado.

# III. Albuquerque District (SPA) in Colorado, New Mexico, and Texas:

#### SPA Regional conditions to be applied only in Colorado

1. Is the project for bank stabilization activities necessary for erosion prevention in streams that average less than 20 feet in width (measured between the ordinary high water

	marks) limited to the placement of no more than ¼ of foot below the plane of the ordinary high water mark	•	material per running
	root below the plane of the ordinary high water mark	.: Yes	☐ No
	If yes, notification pursuant to general condition # 13 is	required.	
2.	Is the project located in streams classified as "Gold M	letal Waters‴ ☐ Yes	? No
	If yes, nationwide permit number 27 may not be used. Individual permit.	Applicant must	apply for a Standard
3.	Is project for Stream and Wetland Restoration activities	ies which incl	ude a fishery
	enhancement component	☐ Yes	No
	If yes, letter from the Colorado Division of Wildlife conc fishery.	urring that the p	project will benefit the
4.	Is the project using or removing temporary fills in we	etlands?	□ No
	If yes, a horizontal marker (i.e., fabric, certifies weed-fr the existing ground elevation of wetlands that will be te		
5.	Is project located in an Important Spawning Area and spawning season (March 15 – July 15; and September		
	If yes, not authorized by any nationwide permit.		
	If no, bio-engineering techniques, such as native riparia protection activities that exceed 50 linear feet in important spavin Colorado.		
6. Is	project located in a wetland, and are fens present?	Yes	☐ No
	If yes, Nationwide Permit Numbers 1, 2, 4, 6-11, 13-19, revoked.	, 21-25, 28-31, 3	33-36, and 39-44 are
7. Is p	project located within 100 feet of the water source of a	a natural sprir Yes	ng? No
	If yes, all nationwide permits are revoked.		
	oes NWP or Regional General Permit require prior notifict Engineer?	ication (a PCN	I) be given to the

	If yes, are the required color photographs or color representative points documented on a site map in		project area taken from
	representative points documented on a site map if	Yes	☐ No
	project located in a special aquatic site as defined course or waterbody in the State of Colorado?	by 40 CFR 230	.40-45 or in a perennial
	source of waterbody in the state of colorado:	☐ Yes	☐ No
	If yes, notification pursuant to general condition #	13 is required.	
10. Is	s project located in a areas designated as Essentia	ıl Fish Habitat?	☐ No
	If yes, notification pursuant to general condition #	13 is required.	
SPA I	Regional conditions to be applied only in <b>N</b>	ew Mexico	,
1.	Is the project for utility line discharges crossing in	waterways wid	er than 200 feet?
	If yes, notification pursuant to general condition #	13 is required.	
2.	Is the project for bank stabilization activities necesthat average less than 20 feet in width (measure marks) limited to the placement of no more than foot below the plane of the ordinary high water necessary.	d between the o  4 cubic yards	ordinary high water
	If yes, notification pursuant to general condition #	13 is required.	
3.	Is the project for linear transportation crossings i	n perennial wat Yes	erways? No
	If yes, culverts shall be designed to provide for fish installed so that waterflow shall be at least 0.8 feet culvert shall not exceed 0.8 ft, and the maximum v than 100 feet long, 3.0 fps for culverts 100-200 feet feet.	t deep, the maximurelocity shall not ex	m hydraulic drop in the ceed 4.0 fps for culverts less
4.	Is project for stream and wetland restoration or ethe use of rip-rap, channelization, or levees?	enhancement ac	tivities that incorporate
	If yes, notification pursuant to general condition #:	13 is required.	
5.	Is the project for residential, commercial, and ins	titutional develo	pment?

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		∐ Yes	∐ NO
	If yes, not authorized for channelization or relocation course regardless of size or rate of flow.	n of any intermitte	ent or perennial water
6.	Is project for mining activities?	☐ Yes	☐ No
	If yes, nationwide permit is revoked.		
7.	Is the project activity involve fills in perennial water	ers or wetlands	larger than ½ acre?
	If yes, applicant must apply for a Standard Individua	al Permit.	
8.	Is project located within 100 feet of the water sou	rce of a natura	ll spring?
	If yes, all nationwide permits are revoked.		
9.	Does the project require temporary water diversion	n or totally dev	vatering more than 100
	linear feet of stream channel?	☐ Yes	☐ No
	If yes, applicant must apply for a Standard Individual If no, notification pursuant to general condition # 13		
10	. Is the project located in a special aquatic site, inc	luding wetland	s, whose principal
	activity is not water dependent?	☐ Yes	☐ No
	If yes, notification pursuant to general condition #13	3 is required?	
11	. Is the project requiring external notification sent tribal agencies for their comments?	to the appropr	iate city, county, or Yes No
	If yes, for activities authorized by NWP No. 4, 13, 27 the New Mexico Department of Game and Fish and o	•	
12	. Is project using any poured concrete, heavy equi 100 feet of any water of the U.S. including wetland		petrochemicals within
	,	Yes	☐ No
	If yes, notification pursuant to general condition #13	3 is required.	
13	. Is project located in an important spawning area a spawning season (March 15 – July 15; and Septen		

If no, notification pursuant to general condition #13 is required. 14. Will project result in changes to local stream gradient, streambed elevation, direction, velocity of streamflow, or cause significant changes in channel size, shape and streambank habitat (unless the project specifically designed to restore previously degraded and unstable streams)? Yes No If yes, notification pursuant to general condition # 13 is required. 15. Is project located in an area designated as a Critical Resource Water? □No l Yes If yes, notification pursuant to general condition #13 is required. SPA Regional conditions to be applied only in **Texas** 1. Is project located in an area designated as a Critical Resource Water? Yes No If yes, notification pursuant to general condition #13 is required. IV. San Francisco District (SPN): No SPN Regional Condition checklist is currently available. Please refer to original text of SPN regional conditions. End of form \* **Instructions:** 1) Box 5: a. **Nature of Activity**: Describe the overall activity or project. Give appropriate

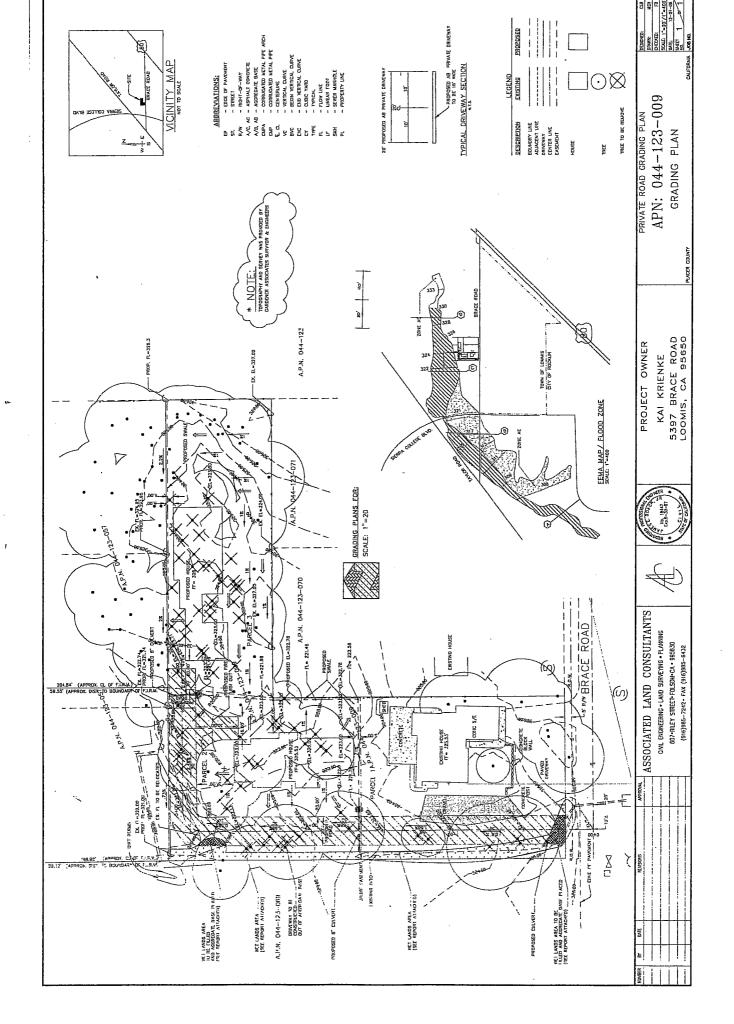
If yes, not authorized by any nationwide

a. **Nature of Activity**: Describe the overall activity or project. Give appropriate dimensions of structures such as wingwalls, dikes (identify the materials to be used in construction, as well as the methods by which the work is to be done), or excavations (length, width, and height). Indicate wether discharge of dredged or fill material is involved. Also, identify any structure to be constructed on a fill, piles, or float-supported platforms. The written descriptions and illustrations are an important part of the application. Please describe, in detail, what you wish to

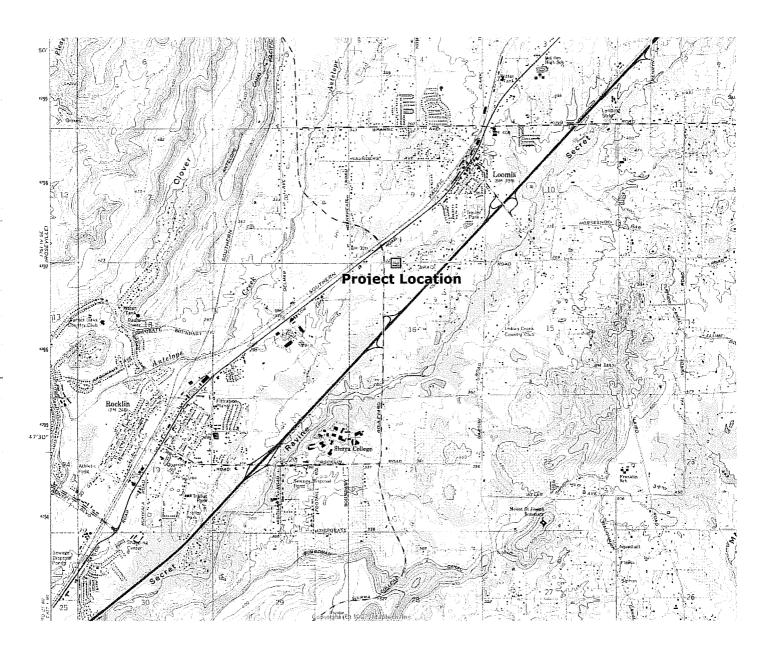
- do. If more space is needed, attach a separate sheet marked "Box 5 Nature of Activity."
- b. **Proposed Project Purpose**: Describe the purpose and need for the proposed project. What will it be used for and why? Also include a brief description of any related activities to be developed as the result of the proposed project.

#### 2) Box 6:

- a. Corps jurisdiction consists of waters of the U.S. Waters of the U.S. are defined under 33 CFR part 329 as "navigable waters of the United States" and/or under 33 CFR part 328.3(a) as "waters of the United States." Under Section 404 of the Clean water Act, either the ordinary high water mark (non-tidal) or the high tide line (tidal), as well as any adjacent wetlands, demarcate waters of the U.S. Under Section 10 of the Rivers and Harbors Act, either the mean high water mark (tidal) or the ordinary high water mark (non-tidal), as well as any adjacent wetlands, demarcate waters of the U.S. Wetlands are identified and delineated using the methods and criteria established in the Corps Wetland Delineation Manual (1987 Manual) (i.e., occurrence of hydrophytic vegetation, hydric soils and wetland hydrology). The term "adjacent" means bordering, contiguous, or neighboring. Wetlands separated from other waters of the U.S. by man-made dikes or barriers, natural river berms, beach dunes, and the like are also adjacent.
- b. **Required drawings**: Submit one legible copy of all drawings (8  $1/2 \times 11$ -inch or  $11 \times 17$ -inch) with a 1-inch margin around the entire sheet. The title box shall contain the title of proposed activity, name of water body, county, city, date, and sheet number.
  - i. Vicinity map: Cover an area large enough so the project can be easily located, include arrow marking the project area, Identifiable land marks, name or number of roads, north arrow, and scale.
  - ii. Plan view: Include existing bank lines, ordinary high water mark line(s), average water depth around the activity, dimensions of the proposed project, dimensions of any structures immediately adjacent to the proposed activity, north arrow, scale.
  - iii. Elevation and/or cross-section views: water elevation as shown on plan view drawing, dimensions of the proposed project, dimensions of any structures immediately adjacent to the proposed activity, scale
- 3) **Box 14:** You may need State water quality certification from the appropriate state or tribal agency (e.g., Regional Water Quality Control Board for non-tribal California lands). You need not have obtained water quality certification before applying for a Corps nationwide permit verification.
- 4) **Box 15:** You may need a federal coastal consistency certification under the Coastal Zone Management Act from the appropriate state agency (e.g., California Coastal Commission for California Coastal Commission). You need not have obtained federal coastal consistency certification before applying for a Corps nationwide permit verification.



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Attachment 1. Location of Proposed Project at 5397 Brace Road; Loomis, CA 95650.

Source: Excerpt from United States Geological Survey 1:24000 topographical quadrangle for Rocklin, CA; published 1967 and photorevised in 1981. This excerpt is a reduction of the original map and is not to scale.

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Attachment 2. Aerial Photograph of Site Location.

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## WETLAND DELINEATION REPORT KRIENKE PROPERTY LOOMIS, CALIFORNIA

September 14, 2006



#### Prepared for Kai Krienke 5397 Brace Road Loomis, California 95650 (916) 652-0231



Tetra Tech Project Number P4030.01

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#### 1.0 INTRODUCTION

Tetra Tech EM Inc. (Tetra Tech) has prepared this wetland delineation report for Mr. Kai Krienke. The wetland delineation was performed on Placer County Assessor's Parcel Number (APN) 044-123-009 and is herein referred to as the subject site. The subject site is located approximately 500 feet to the east of the intersection of Sierra College Boulevard and Brace Road in Loomis, Placer County, California (Figure 1). At the time of the August 28, 2006 wetland delineation, the subject site was developed with a single-family rural residence, with the remainder a mix of landscaped areas and forest. The subject site totaled approximately 1.1 net acres in size and is currently used for residential purposes.

#### 2.0 DELINEATION METHODOLOGY

Wetland boundaries were delineated using the routine on-site inspection method outlined in the "Corps of Engineers Wetlands Delineation Manual," (U.S. Army Corps of Engineers [USACE] 1987) for areas equal to or less than 5 acres in size and problem areas. In accordance with the USACE manual, under normal circumstances, hydrophytic (wetland) vegetation, hydric soils, and hydrologic features must all be present for an area to be considered a wetland.

The central valley of California has unique weather patterns, which make delineating wetlands year-round challenging. Since rain typically only falls during the winter months, wetlands in the central valley typically only retain water during the wet months. According to the definition in the USACE manual, wetlands potentially located on the subject site are considered seasonal wetlands; "Seasonal wetlands - In many regions (especially in western states), depressional areas occur that have wetland indicators of all three parameters during the wetter portion of the growing season, but normally lack wetland indicators of hydrology and/or vegetation during the drier portion of the growing season." This type of wetland is considered a problem area, because all three indicators are not present during the dry season. Absence or presence of wetland conditions on the subject site was based on soils, with secondary consideration given to the vegetation and hydric indicators since the delineation was performed during the dry season.

In addition, wetland boundaries were delineated by visually observing soil, vegetation, and hydrology characteristics on the subject site. A variety of site-specific information was reviewed before the on-site investigation of the subject site was conducted. The following information was reviewed to verify the potential wetland location and to assist in determining the fieldwork approach:

- Aerial photographs
- U.S. Geological Survey (USGS) topographic quadrangle map
- Soil Conservation Service soil survey
- National wetland inventory (NWI) map

The following sections present the results of the vegetation, soil, and hydrologic surveys for this wetland delineation. Appendix A contains photographs of the subject site.

#### 3.0 EXISTING CONDITIONS

This wetland delineation was performed on August 28, 2006, by Sarah Piper, a biologist. The subject site's physical setting was researched employing a USGS 7.5 Minute Topographic Quadrangle (Quad) Map of the Rocklin Quad. The USGS 7.5 Minute Quad Map has an approximate scale of 1-inch equals 2,000 feet, and shows physical features such as wetlands, roadways, mines, and buildings. No wetlands were depicted on the site on the topographic map. The elevation of the subject site is approximately 330 feet above mean sea level with a general topographic gradient to the north. The location of the subject site is presented on a topographic map in Figure 1.

The soils underlying the subject site have been generally characterized as Andregg Coarse Sandy Loam, 2 to 9 percent slopes. This series consists of moderately deep, gently rolling, well drained soil underlain by weathered granitic bedrock. These soils formed in residuum on low hills in the Loomis basin (USDA SCS 1980).

Andregg Coarse Sandy Loam is not listed as a series on the hydric soils list of California and is classified as group C in the hydrologic soil group list. Group C soils are not considered a hydrologic soil (USDA SCS 1980).

At the time of the wetland delineation on August 28, 2006, the subject site was developed with a single-family rural residence, with the remainder a mix of landscaped areas and forest. The owner recently conducted underbrush clearing activities on the forested area on the northeastern portion of the site. Wetland delineations are typically conducted during the wet season in the late winter and early spring months. The three standard wetland indicators (wetland vegetation, hydrology and hydric soils) are typically present and easily identifiable during the wet season. The plants are in bloom and readily identifiable, there is typically standing water or water present perched below the surface soil, and the soils are gleyed, mottled or exhibit reduction patterns around the plant roots.

The delineation for the subject site was conducted during the dry summer months. Conditions are not ideal for conducting delineation during this time, as the plants are typically dead and dry, making them difficult to identify. Many of the plants were identifiable based on the remnants of flowers still present on the plants. Hydric indicators were based on topographic features as there is no standing water during the dry season.

Based on the information above and the initial site walk, 6 potential wetland areas were identified at the site. The sections below present the observations and investigations of each of the areas.

#### 4.0 WETLAND INDICATORS

Six separate potential wetland areas were observed on the subject site. These areas were named Area 1 through Area 6 for purposes of this report (Figure 2). Areas 1 and 2 were low-lying areas that appeared to have been created during underbrush clearing activities in the recent past. Area 3 was a narrow drainage ditch which traversed through the northwest portion of the site in a general northwesterly direction. Area 4 was an area with slightly depressed topography that

appeared to be a drainage area for the adjacent property to the east. Area 5 was a low-lying area on the northwest corner of the site, and Area 6 was a man made drainage ditch that drained into Area 5, and continued on off the site. The following sections present the wetland indicators found in each of the wetland areas on the subject site.

#### 4.1 **VEGETATION**

A walkthrough of the subject site was performed to assess the dominant vegetation types. Some of the plant species on the subject site were not recognizable due to recent clearing activities. It was possible to key plants to genus, however due to the decayed state of some of the plant flowers, the species could not be determined. Approximately 85% of the plants found in the potential wetland areas were identified to species. Several of the wetland plants were identifiable despite the decayed flowering parts due to other characteristics such as edged stems on sedges and seed pods on water plantain plants. The identification of these species in the wetland areas was provided enough plant cover to make a determination of wetland status for delineation purposes. Dominant plant species observed at the site that could be identified, were classified for wetland indicator status according to the "National List of Vascular Plant Species that Occur in Wetlands" (United States Fish and Wildlife Service [USFWS] 1988) and characterized as follows:

- Obligate (OBL) occurs almost always (estimated probability greater than 99 percent) under natural conditions in wetlands.
- Facultative Wetland (FACW) usually occurs in wetlands (estimated probability 67 to 99 percent), but occasionally found in non-wetlands.
- Facultative (FAC) equally likely to occur in wetlands or non-wetlands (estimated probability 34 to 66 percent).
- Facultative Upland (FACU) usually occurs in non-wetlands (estimated probability 67to 99 percent), but occasionally found in wetlands (estimated probability 1 to 33 percent).
- Obligate Upland (UPL) occurs almost always (estimated probability greater than 99 percent) under natural conditions in non-wetlands in the region specified.

No Indicator (NI) – insufficient information available to determine an indicator status.

To further refine these categories, a "+" or "-" sign is used in some instances to indicate the likelihood of a plant occurring in a wetland site. Vegetation information was recorded on USACE routine wetland determination data forms included as Appendix B.

The following table lists plant species observed at each of the Areas at the site and the regional indicator status from the "National List of Vascular Plant Species that Occur in Wetlands" (FWS 1996).

TABLE 1 - Dominant Vegetation on Subject Site

Common Name	Scientific Name	Wetland or Upland Plant	Regional Indicator Status
Area 1**			
Valley Oak	Quercus lobata	Upland	FACU
Fremont Cottonwood	Populus fremontii	Both	FAC+
Area 2**			
Valley Oak	Quercus lobata	Upland	FACU
Area 3**			
Valley Oak	Quercus lobata	Upland	FACU
Area 4			
Sedge	Cyperus spp.	Wetland	FACW, OBL
Water Plantain	Alisma plantago- aquatica	Wetland	OBL
Area 5			
Sedge	Cyperus spp.	Wetland	FACW, OBL
Water Plantain	Alisma plantago- aquatica	Wetland	OBL
Blackberry	Rubus allegheniensis	Both	FAC+
Area 6			
Water Plantain	Alisma plantago- aquatica	Wetland	OBL
Blackberry	Rubus allegheniensis	Both	FAC+
Curly Dock	Rumex crispus	Wetland	FACW-

Notes:

\*\* - No vegetation was observed in the immediate area of the test pit, which was dug out in the area most likely to support pooled water, however these plants indicated were observed near the test pit and included on the forms for informational purposes

FAC - Facultative FACU - Facultative Upland FACW - Facultative Wetland OBL - Obligate Wetland

#### 4.2 HYDROLOGY

Hydrology was assessed by a visual observation of primary and secondary wetland hydrology indicators. Drainage patterns were the only primary indicators observed at the site during the delineation. Secondary hydrologic indicators observed were oxidized root channels in the upper 12 inches and water stained leaves. The hydrology profile descriptions were recorded on USACE routine wetland determination data forms and are included as Appendix B.

Area 1 and Area 2 exhibited no wetland hydrology indicators. Drainage patterns were observed in Area 3 because it is a ditch that water drains through. In Area 4, drainage patterns caused by runoff from the adjacent lawn on the property to the east were observed. After delineating all the areas of the site, Areas 5 and 6 were delineated separately because they appeared to be separate features during the initial assessment of the site, however after being delineated, it was evident that they were part of the same man-made ditch. Both areas 5 and 6 had drainage patterns and secondary wetland hydrology indicators.

#### 4.3 SOILS

Soils were characterized by (1) digging eight soil pits with a shovel (Pit 1A, Pit 2A, Pit 3A, Pit 4A, Pit 5A, Pit 5B, Pit 6A, and Pit 6B) and (2) inspecting the soil profile for hydric soil indicators, in accordance with the USACE delineation manual (USACE 1987). According to the soil survey for this site, the soils are not hydric soils and are not typical wetland soils. Soil pit locations are indicated on Figure 2.

Soil color was described using the Munsell Soil Color Chart (Kollmorgen Corporation 1992). Other soil characteristics such as soil texture, organic content, consistency, moisture content, and

special soil characteristics such as mottling and gleyed conditions, were described using standard nomenclature. Mottled soil colors and oxidized root channels were observed in pits 5A, 6A, and 6B, indicating that hydric soils were present in those areas. The soil profile descriptions were recorded on USACE routine wetland determination data forms and are included as Appendix 2.

#### 5.0 CONCLUSIONS

The conclusions presented in this report are based on the observations and professional opinion of Tetra Tech.

Upon an initial walk-through of the site, six potential wetland areas were identified. Upon further investigation, it was determined that two of the areas (Area 5 and Area 6) contained the three characteristics necessary to be considered wetlands, and four did not. The boundary of Area 5 was indicated with flagging and the soil pits were marked with a wooden stake and flagging. The second area, Area 6, was a man-made ditch feature, and was not indicated with flagging due to partial cover by thick blackberry bushes and because the edge of the ditch was easily identifiable, however the soil test pits in Area 6 were marked with a wooden stake and flagging. This information was used to produce a rough map of the boundaries of these areas on the subject site (Figure 2). After the delineation was performed a survey crew produced a map of Area 5 and Area 6, located on the property. The total coverage of these two areas was approximately 2,203 square feet. This map is included in this report as Addendum 1.

According to Part IV, Subsection 4 of the USACE wetland delineation manual, "A man-induced wetland is an area which has developed at least some characteristics of naturally occurring wetlands due to either intentional or incidental human activities." Both Areas 5 and 6 are considered to be man induced wetlands. Step 4 of the aforementioned section also states, "If hydrophytic vegetation is being maintained only because of man-induced wetland hydrology that would no longer exist if the activity (such as, irrigation) were to be terminated, the area should not be considered a wetland." According to this regulation, Areas 5 and 6 are not considered wetlands because; the water supply to these features is run-off that is culverted through a manmade pipe which drains to the man-made ditch (Areas 5 and 6) on the site. Therefore, these

areas should not be not evaluated by applicable agencies as wetlands. A summary of the characteristics of each Area is presented below in Table 3.

TABLE 3 – Test Pit Summary

Area and Pit ID	Hydrophytic Vegetation Indicators	Hydric Soil Indicators	Hydrology Indicators	Wetland vs. Upland
Area 1, 1A	No vegetation observed near test soil pit	None	None	Upland
Area 2, 2A	No vegetation observed near test soil pit	None	None	Upland
Area 3, 3A	No vegetation observed near test soil pit	None	Topography (drainage ditch)	Upland
Area 4, 4A	Less than 50% FAC, FACW, OBL	None	Topography (drainage area)	Upland
Area 5, 5A	20% FAC, FACW, OBL 65% is a known wetland plant in CA, however is not listed on the hydrophytic vegetation indicator list for CA	Reducing conditions, matrix from 0.5 to 4.0 inches - 10 YR 3/3, mottles 10 YR 4/6, from 4.0 to 13.0 inches - 10 YR 3/2, mottles 2.5YR 3/4	Drainage pattern in wetland (Primary Indicator) due to man-made ditch, oxidized root channels in upper 12 inches and water-stained leaves (Secondary Indicators)	Man-Induced Wetland
Area 5, 5B	No vegetation observed in the low area where the test soil pit was dug out	None	None	Upland
Area 6, 6A	60% FAC+, 40% is a known wetland plant in CA, however is not listed on the hydrophytic vegetation indicator list for CA	Reducing conditions, matrix from 1.0 to 9.0 inches - 10 YR 3/2, mottles 2.5YR 3/4 (shovel refusal was encountered below 9.0 inches due to thick root mass)	Drainage pattern in wetland (Primary Indicator) due to man-made ditch, oxidized root channels in upper 12 inches and water-stained leaves (Secondary Indicators)	Man-Induced Wetland
Area 6, 6B	55% FACW- or FAC+, 25% is a known	Reducing conditions, matrix from 1.5 to 12.0	Drainage pattern in wetland (Primary Indicator) due to	Man-Induced Wetland

wetland CA, how not listed hydroph vegetatic indicator CA	vever is 3/2, mottles 2.5YR 3/4  ytic 3/4	man-made ditch, oxidized root channels in upper 12 inches and water-stained leaves (Secondary Indicators)
---	---	---

Notes:

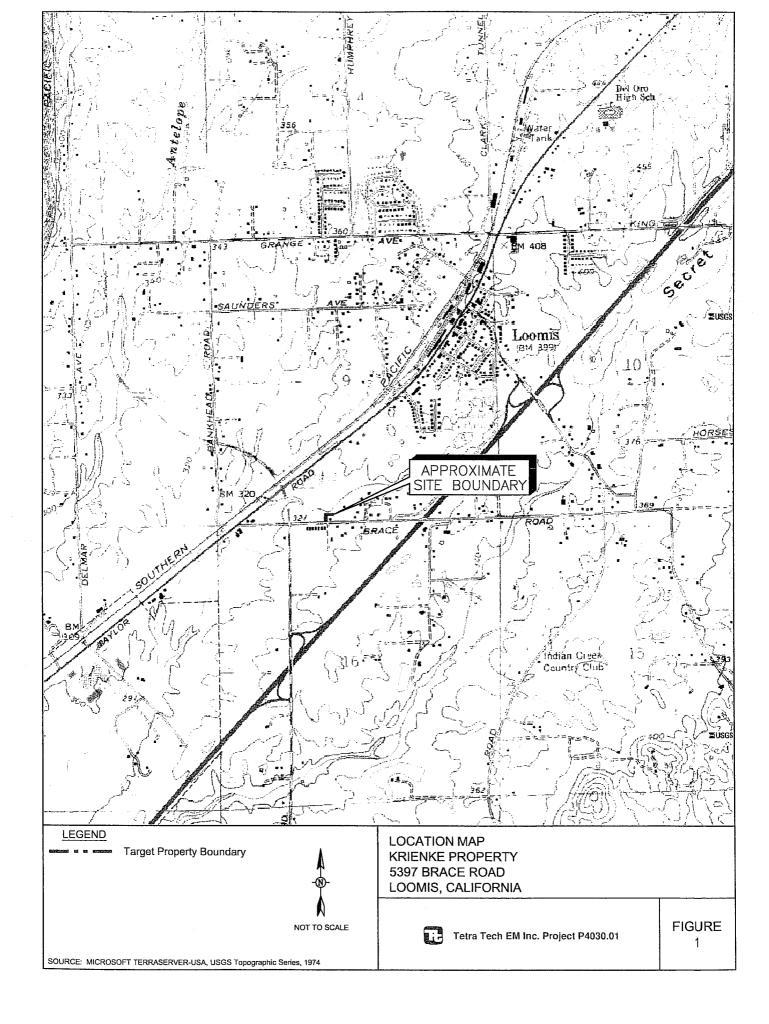
FAC - Facultative

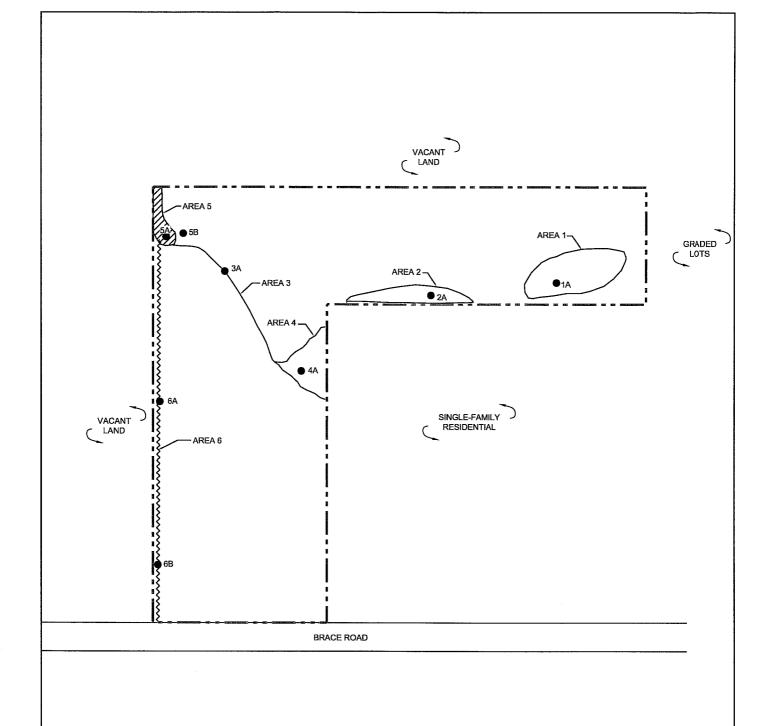
FACW - Facultative Wetland OBL - Obligate Wetland

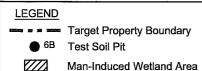
#### 6.0 LITERATURE CITED

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NOT TO SCALE

SITE MAP KRIENKE PROPERTY 5397 BRACE ROAD LOOMIS, CALIFORNIA

Tetra Tech EM Inc. Project P4030.01

FIGURE 2

SOURCE: TETRA TECH EM INC., 2006

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# APPENDIX A

# Photograph Journal

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# Photograph 1

Orientation: Northeast

View of Area 1.



# Photograph 2

Orientation: West

View of Area 2.

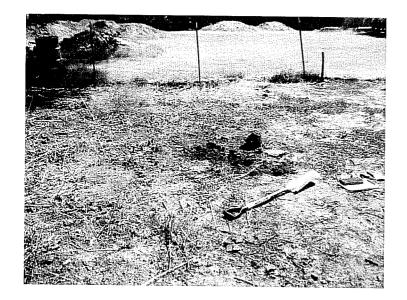


# Photograph 3

**Orientation: South** 

View of Area 3.

Wetland Delineation Report, Krienke Property Loomis, Placer County, California Tetra Tech EM Inc. Page 1 of 2



# Photograph 4

Orientation: East

View of Area 4 and test soil pit 4A.



# Photograph 5

Orientation: North

View of Area 5 after delineation.

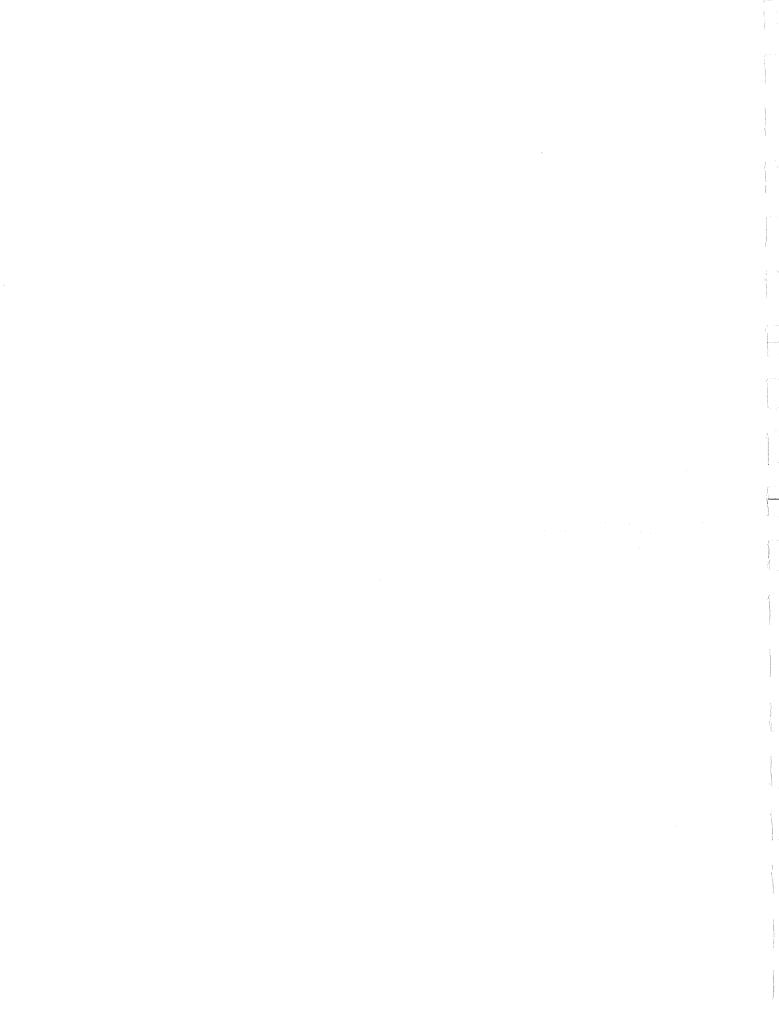


## Photograph 6

Orientation: North

View of Area 6 and test soil pit 6B.

Wetland Delineation Report, Krienke Property Loomis, Placer County, California Tetra Tech EM Inc. Page 2 of 2



# APPENDIX B

# **Data Forms**

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Potential WETLAND AREA #1

# DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Kai Krienke Wetla Applicant/Owner: Kai Krienke Investigator: Sarah Piper	nd ·	Date: 8.28.06 County: Placer State: California
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community-ID: Transect-ID: Plot ID:  I A

#### **VEGETATION**

Dominant Plant Species  1. Cottonuxod NA 2. Jallay Oak NA 3	Dominant Plant Species         Stratum         Indicator           9.         10.         11.           11.         12.         13.           14.         15.         16.
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	
Hemarks: Area located in oak Grest habitat. Un was evident in low areas where water might in in midate vicinity.	ndergrowth howbeen disturbed - No vegetation peoplup. Ottonwood + oak were observed

#### **HYDROLOGY**

	Wetland Hydrology Indicators: Pone Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)
Remarks: low area appears to have been man n year. No wetland hydrology Indicators u Support ponded water.	rere observed. area is lowlying + could

#### SOILS

Map Unit Name (Series and Phase): Andrega Cause Sandy loain, Drainage Class:
Profile Description: Depth Matrix Color Mottle Colors Mottle Abundance/ Texture, Concretions, (inches) Horizon (Munsell Moist) (Munsell Moist) Size/Contrast Structure, etc.
0-1/2 0 NA organic matter none mone sandy silt w/ gravels
72 TO THE TOTAL STATE OF THE CONTROL OF THE STATE OF THE
Hydric Soil Indicators:  - Histosol
Remarks: Soils are sandy Stilt w/ gravells. no hydric soil indicators were observed

#### WETLAND DETERMINATION

Hydrophytic Vegetation Present?  Wetland Hydrology Present?  Hydric Soils Present?  Yes (No)  Yes (No)  Yes (No)	(Circle) Is this Sampling Point Within a Wetland? Yes No		
Remarks: The area is aman-made low	lying area within oak woodland habita &		
This area is not a welland.			
	the second of th		
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	, the contract		

# DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Kar Krienke Wetland
Applicant/Owner: Kai Krienke
Investigator: Sanah Piper

Do Normal Circumstances exist on the site?
Is the site significantly disturbed (Atypical Situation)?

Is the area a potential Problem Area?
(If needed, explain on reverse.)

Date: 8.28.06
County: Placek
State: CA

Community ID:
Transect ID:
Plot ID: 2A

# VEGETATION

Dominant Plant Species  1. No Ney Oak  2. NA Sp.  3	Dominant Plant Species  9.		Indicator	
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).				
Remarks: No vegetation was observed in the low area of the test pit oaks were observed in the innediate vicinity.				

#### **HYDROLOGY**

Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland Hydrology Indicators: NONA Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:  (in.)	Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)
Remarks: NO wetland hydrology Indicates	ors observed. Area is low lying + could

#### SOILS

Map Unit Name (Series and Phase):	Indregg C	oanse Sand 2 to 9 percen	Fiel	inage Class: d Observations firm Mapped Type?  Yes No	
Profile Description: Depth :: (inches) Horizon  - 1/2  2 - 13 A	Matrix Color (Munsell Moist)  A  10 YR 3/2	Mottle Colors (Munsell Moist)  NA hone	Mottle Abundance/ Size/Contrast  NA	Texture, Concretions, Structure, etc.  Organic matter, leaf litter Sandy Silf W/gravels	
Hydric Soil Indicators: NONE  Histosol Histo Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)  Hemarks: Joi S are Sandy Sift wy gravells. No hydric Soil Indicators were Observed.					

#### WETLAND DETERMINATION

WEI LAND DETERMINATION	
Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?  Yes (No (Circle) Yes (No (Circle)	(Circle) Is this Sampling Point Within a Wetland? Yes No
Property adjacion south so could ponding. This area is not conside	lying area. Appears that the drain to this area cousing seasonal red a westland.
	Approved by UOLICAGE B/00

# DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Kai Krienke Wetlan Applicant/Owner: Kai Krienke Investigator: Samph Piper	<u></u>	Date: 8.28.06 County: Diacine State: CA
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No	Community ID:

#### **VEGETATION**

Dominant Plant Species Stratum Indicator  1. Vally Oak UA	Dominant Plant Species 9	Stratum	Indicator
3. 4	10 11: 12		
5	13 14 15		<u> </u>
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	16	·	
Remarks: No vege tation was observed in the	area o Oak trees were o		1000

# HYDROLOGY

<ul> <li>✓ Recorded Data (Describe in Remarks):</li> <li> Stream, Lake, or Tide Gauge</li> <li> Aerial Photographs</li> <li> Other</li> <li> No Recorded Data Available</li> </ul>	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:    Comparison   C	Sediment Deposits Y-Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12 Inches Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)
Remarks: activities. Area is a gravel lined maintained in	an-made ditet.

SOILS

JOILS					
Map Unit Name (Series and Phase): Andrego Coanse Sandy loans, Drainage Class: Field Observations Confirm Mapped Type? Yes No					
Profile Description: Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.	
0=1/4 NA	NA -	<u>na-</u>	<u>n4</u>	pea gravel	
4-14 A	10. YR 3/2	None_	none	Enndy siltw/growels	
Hydric Soil Indicators:	none.				
Histosol Concretions Histic Epipedon High Organic Content in Surface Layer in Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)					
Remarks: Soils not hydric. in test pit.					

#### **WETLAND DETERMINATION**

Hydrophytic Wetland Hyd Hydric Soils	Vegetation Present? Irology Present? Present?	Yes (6) (Circle) Yes No Yes No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:			
<u>L</u>	•		Approved by HQUSACE 3/92

# DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Kai Krienke Wetland Applicant/Owner: Kai Krienke Investigator: Sarah Piper		Date: 8.28-00 County: PLACER State: CA
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	on)? Yes No Yes No	Community ID: Transect ID: Plot ID:4A
VEGETATION		
Dominant Plant Species  1. Stage 2. Chilory 3. Water Plantain 4. Base ground 5. 6. 7. 8.  Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).  Remarks: Vegetation not abundant, Sparse s	14 15 16	
### Recorded Data (Describe in Remarks):  Stream, Lake, or Tide Gauge Aerial Photographs Other  No Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:    Continue C	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Water Marks Drift Lines Sediment Deposits Drainage Patterns in V Secondary Indicators (2 or n Oxidized Root Channe Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remand	inches  Vetlands nore required): els in Upper 12 Inches  arks)
Remarks: Area is a low area where water or applars to drain to the area of the te	owld pool. The proper stpf.	ty to the east.

SOILS

Map Unit Name (Series and Phase):				
Profile Description: Depth (inches) Horizon (Munsell Moist)  O-1/2 O MA  1/2-16 A 10 Y R 3/2	Mottle Colors (Munsell Moist)  NA  None	Mottle Abundance/ Size/Contrast  NA  None	Texture, Concretions, Structure, etc.  Spanse last stick defins.  Sandy silt w/ gravells.	
Hydric Soil Indicators:  Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors	Organic Stre. Listed on Loc Listed on Nat	c Content in Surface Laye aking in Sandy Soils call Hydric Soils List tional Hydric Soils List in in Remarks)	er in Sandy Soils	
Remarks:	·			

#### **WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Solis Present?	Yes (No) (Circle) (Fes) No (Yes) (No)	(Circle) Is this Sampling Point Within a Wetland? Yes (No)	
Remarks:			
	er Length Length Length		
	and the second section of the section of the second section of the section of the second section of the section of th		

# **DATA FORM** ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Kai Krienke Wattan Applicant/Owner: Kai Krienke Investigator: Sarah Piper	Date: 8-28.06 County: Placer State: Off
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes (No) Community ID:
VEGETATION	
Dominant Plant Species  1. Sudge  2. Blackborre 5% FAC+  3. Water Phutain 65% OBL  4. Sedge  5. FACW, or  6. 7. 8.	Dominant Plant Species         Stratum         Indicator           9.         10.           11.         12.           13.         14.           15.         16.
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	
Remarks:	
IYDROLOGY	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations:	Wetland Hydrology Indicators: Primary Indicators:Inundated Saturated in Upper 12 Inches Water Warks Drift Lines Sediment Deposits
Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:  (in.)	X_Drainage Patterns in Wetlands Secondary Indicators (2 or more required):X_Oxidized Root Channels in Upper 12 InchesX_Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)
Remarks: area is a low lying area where runs along the west property bounds	. @ water drains from the diftch that my and ditch on property.

CO	11	C
au	11	_3

Map Unit Name (Series and Phase): And ogg C ,Taxenomy (Subgroup):	oanse Sand 2 to 9 p	y Oagn, Draina Field C Encent Slopes Confir	age Class:	
Profile Description: Depth (inches) Horizon (Munsell Moist)  O-1/2 O NA  1/2-4 A IOVR 3/3  4-13 A IOVR 3/2	Mottle Colors (Munsell Moist)  NA  10 YR 46  2.5 YR 3/4	Mottle Abundance/ Size/Contrast  NA Spanse, no + much akundan f.	Texture, Concretions, Structure, etc.  Loaf litter  Lonfrast Silfw/spanse Silfw/spand w/trace gravelle	
Hydric Soil Indicators:  Histosol Histic Epipedon High Organic Content in Surface Layer in Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  High Organic Content in Surface Layer in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Cother (Explain in Remarks)  Remarks: OXI 013200 1000 Channels, abundant mothers				
Remarks: OXI dized 1004 Uman	rely, abu	ndant mottles		

#### **WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	(G) No (Circle) (TE) No (G) No	(Circle) Is this Sampling Point Within a Wetland?
Remarks: Pont ob Jeantene	man-made d	litch, not a natural wetland

# **DATA FORM** ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Kai Krienke Wetland	Date: 8.28:06
Applicant/Owner: Kai Krienda Investigator: Sarah Piper	County: PLACER
investigator: Oarah Piper	State: <u>CA</u>
D. Marrison	
Do Normal Circumstances exist on the site?  Is the site significantly disturbed (Atypical Situation	Yes No Community ID:
Is the area a potential Problem Area?	1)? Yes No Transect ID: Flot ID: 5B
(If needed, explain on reverse.)	TIOCID:
VEGETATION	
Dominant Plant Species Stratum Indicator	Dominant Plant Species Stratum Indicator
1. Blackberry NA FAC+	9
2	10
3. :x/- 4	11
5	12
6	14,
8	15
	16
Percent of Dominant Species that are OBL, FACW or FAC	
(excluding PAC-).	
Remarks: NO Vegetation was observed in the Blackberry plants observed along the ed	600 c/ U. and some ON I to
	) to the appropriate
·	
IYDROLOGY	。 2
✓ Recorded Data (Describe in Remarks):	Wetland Hydrology Indicators; ∧ ○ ► €
Stream, Lake, or Tide Gauge  ☑ Aerial Photographs	Primary Indicators:
Other	Inundated Saturated in Upper 12 Inches
No Recorded Data Available	Water Marks
	Drift Lines Sediment Deposits
Field Observations:	Drainage Patterns in Wetlands Secondary Indicators (2 or more required):
Depth of Surface Water:(in.)	Oxidized Root Channels in Upper 12 Inches
Depth to Free Water in Pit:	Water-Stained Leaves Local Soil Survey Data
Danish shi Quitarrata 10 ti	FAC-Neutral Test
	Other (Explain in Remarks)
Remarks: topograpy of ditch would	not support pooled water as
remarks: topograpy of ditch would it is too steep.	,
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Map Unit Name (Series and Phase): Andreas Taxonomy (Subgroup):	Coance Sandy loans Drainage Class:			
Profile Description: Depth (inches) Horizon (Munsell Moist)  0-1 0 Depth (Munsell Moist)  1-13 A 104K3/3	Mottle Colors (Munsell Moist)  NA  NA  NA  NA  Nove  Nove  Mottle Abundance/ Structure, Concretions, Structure, etc.  Structure, etc.  Structure, Structure, etc.			
Hydric Soil Indicators: MOYPE  Histosol Histo Epipedon Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors  High Organic Content in Surface Layer in Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)  Remarks: hydric Soil not observed at this pit location				

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No (Circle)  Yes No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:		

Potential Area

# DATA FORM ROUTINE WETLAND DETERMINATION

(1987 COE Wetlands Delineation Manual)

Project/Site: Kar Krienke Lule Han Applicant/Owner: Kai Krienke Investigator: Sanah Piper	Date: 8.28.06 County: Placer State: CA	
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID: Transect ID: Plot ID:
VEGETATION		
Dominant Plant Species  1	9	
HYDROLOGY		
Recorded Data (Describe in Remarks): Stream, Lake, or Tide GaugeAerial PhotographsOtherNo Recorded Data Available  Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:  (in.)	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Water Marks Drift Lines Sediment Deposits Drainage Patterns in Secondary Indicators (2 or Coxidized Root Chann Water-Stained Leave: Local Soil Survey Dat FAC-Neutral Test Other (Explain in Rem	2 Inches Wetlands more required): els in Upper 12 Inches s a
Remarks: Ditch parallels East property B	oundary	

SOILS

Map Unit Name (Series and Phase): An dve g cj Faxonomy (Subgroup):	Oparse Sandi 2+9 per		nage Class: d Observations firm Mapped Type? (Yes) No	
Profile Description: Depth (inches) Horizon (Munsell Moist)  O-1 D MA  1-9 A 10 yr 3/2  refuse-toc many roots	Mottle Colors (Munsell Moist)  NA  2.5 yr 3/4	Mottle Abundance/ Size/Contrast  NA abundant	Texture, Concretions, Structure, etc.  last 1. Her 8ity Sand w/trace grave	Dls
Hydric Soil Indicators:  Histosol Histic Epipedon High Organic Content in Surface Layer in Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Gleyed or Low-Chroma Colors Other (Explain in Remarks)				
Remarks: Oxidized root channels, abundant no Hles.				

#### **WETLAND DETERMINATION**

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	Yes No (Circle) Yes No Yes No	(Circle) Is this Sampling Point Within a Wetland? Yes No	
Remarks: Man-made wetland.	ditch has u	vetland features, not a natural	

#### **DATA FORM ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual)

Project/Site: Kai Krienke Wetland Applicant/Owner: Kai Krienke Investigator: Sozala figer		Date: 8-28.04 County: Pla.cer State: CA
Do Normal Circumstances exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No	Community ID: Transect ID: Plot ID: 68

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Г			-		=	=	=

Dominant Plant Species  1. Cun'y Dock  2. Special  3. Hackburn  4. Water Plantain  5.  6.  7.  8.	Dominant Plant Species 9		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).		. :.	
Remarks:			

## HYDROLOGY

	Wetland Hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations:  Depth of Surface Water:  Depth to Free Water in Pit:  Depth to Saturated Soil:  (in.)	Sediment Deposits  Forainage Patterns in Wetlands Secondary Indicators (2 or more required);  Oxidized Root Channels in Upper 12 Inches  Water-Stained Leaves  Local Soil Survey Data  FAC-Neutral Test  Other (Explain in Remarks)
Remarks:	

SO	11 8
JU	16.0

Map Unit Name (Series and Phase):, ,Taxonomy (Subgroup):	Andregg	coarisa San 2 to 9 percent	ady loam Drain Field Slopes Confi	inage Class: d Observations firm Mapped Type? Yes No		
Profile Description: Depth (inches) Horizon O-11/2	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast \(\lambda/\Lambda\)	Texture, Concretions, Structure, etc. Leaf 11 Hor		
	DYR#3/2 	25yr 3/4	-30%, large contract	Sandy trace silf +gro	vels -	
	-	. `			_ ·.	
					· ·	
Hydric Soil Indicators:						
Histosol Concretions Histic Epipedon High Organic Content in Surface Layer in Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)						
Remarks: Widi	Remarks: Oxidized not channels + a bundant mottles.					
					:	

### WETLAND DETERMINATION

Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present?	(Yes) No (Circle) (Yes) No No		Circle) (es) No
Remarks: Man-Made di Leuture.	th has wetla	nd features, not a pro	Annal
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